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REAR
Dear Prof. Kevles:

Thank we you for your answer to my wife's inquiry concerning arginase and the Shope papilloma virus. Unfortunately I did not see your article in the New Yorker nor her letter. Neither did I see French Andersons's Section on Genetic Therapy pulished in 1972. This was the time of the peak of the reaction to such Genetic intervention, as you probably remember. I am not personnally acquainted with Dr. Anderson except through correspondence and telephone calls received in the Spring and Summer of 1984 but am pleaded to report that these contacts, largely informational, he appeared wholly interested in as well as a suporter of my work. I thought you would find the facts as I encountered them of particular interest as key you were apparently given some erroneous information by your source.

First in relation to the work being halted because the experiment did not result in a diminution in the blood argining levels:

My work prior to prolumement with the Germanschildren, and because of which to whom I was introduced by Lederberg was primarily concerned with rabbits and Shope virus induced papillomas. Rabbits infecteds with the Shope virus develop low blood arginines if the skin is inoculated and/or low blood arginines. Mice, rats, mankers and monkeys following inoculation develop low blood arginines but dogs (Beagles) do not. People who have worked with the virus either in the laboratory or in animal care often developlow arginines. Further with the exception of the laboratory workers and helpers the contact was with purified virus. Dr. Shope inoculated himself with the virus in 1933. His serum taken two years later revealed the lowest bood arginine yet encountered. His resistant to the file interpolation of the laboration with this virus causes a drop in

the blood arginine in several species including man. The classic geneticists at Oak ridge were so taken aback by these finding man.

To Sisting

some did not want the information to be made publick. At an information meeting held in Oak Ridge the National Cancer Institute representatives for whom I was worked as well as those of the AEC heard of these findings and felt that they should be confirmed in blind tests by an independent laboratory. This I felt was an excellent idea. These tests were carried out with the cooperation of Dr. C.A. Evans Chairman of Microbiology at the University of Washington and Dr. Ray Bryan of the National Cancer Institute who arranged for the independent laboratory in Philadelphia. Our results were precisely repeated in each instance. It was clear that at least in the speceis tested including man that we had a means to control the blood argininess by virus infection suggesting that certain metabolic deficiency diseases could be similarly approached therapeutically.

Tissue cultured from fibroblasts from two of the German sisters with argininemia were also infected with the virus and the specific arginase induced and demonstrated there in. For the content of the co

In no instance have any of these infected people or any of the animals tested developed changes other than a low arginine except for the pabbit which developed papillomas at the inoculation site, and the contraction of the contraction of the second — That our work was halted water because the experiment did not work:

In a Study Section report concerning review of a related appliction involving the Shope and received after I had moved to Memphis from Oak Ridge because of support problems in a Federal Laboratory. It was stated that I was likely to infert all the students the faculty, and maybe kill a third of the people in Memphis. "Disapp proval." Another application similar in general but dealing with modification of the tobacco mosaic virus RNA by addition of nitogen fixing information carried by a plasmid to TMV RNA and subsequently infecting plants such as the turnip, elicited the response that I might end-up with a Kudzu-like plant that might taken over the world.

Disapproval. " A Reference and Male at the school and the first and the first contains the first party for the first part

At times I think that in the Middle Ages I would have been burned at the stake instead I appear to have received it modern equivalent.

At Cal Tech Ray Owen xx knew in some detail of this work with the Shope, as did Sinsheimer, Winexxx Dulbecco, and Dr. George Beadle before thy left. At Johns Hopkins, Horace Judson now in a position similar to yours, who you doubtless know, has been as closely associated with these children as any one except the parents and A reprint is enclosed.,

Thanks.

Thanks.

Sincerely yours,

Stanfield Rogers, M.D. Prof: Biechemistry

P.S. There is an excellent review of this field (1984) in which you would be interested. The book is the Gene Doctors, by Yvonne Baskin, William Morrow and Co.Inc., New York, New York, 1984.

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